

Surface Mount Glass Passivated High Efficient Rectifier

SMA(DO-214AC)



Primary characteristics						
I _{F(AV)}	1A					
V_{RRM}	50V to 1000V					
I _{FSM}	30A					
I _{RM}	5uA					
V _{FM} at I _F =1A	1.0/1.3/1.7V					

T_J max.

Features

- ROHS compliant
- Glass passivated chip
- High forward surge capability
- Meet MSL level 1, per J-STD-020 LF maximum peak of 250 °C
- Solder dip 260 °C / 40S
- Component in accordance to ROHS 2002/95/EC and WEEE 2002/96/WC
- UL recognition, file number E342874

Applications

Ideal for ac-to-dc bridge full wave rectification suck as SMPS, home applianes, office equipment, indusrial automation applicatios

Mechanical data

- SMA(DO-214AC)
- Epoxy meets UL 94 V-0 flammability rating
- Terminals: Tin plated leads.
- Polarity: As marked.
- Mounting Torque:10cm-kg(8.8 inches-lbs)max.
- Recommended Torque:5.7 cm-kg(5 inches-lbs)

Maximum rating (Ta=25°C unless otherwise noted)

150 °C

Danier and an			SMA(DO-214AC)								
Parameter		Sym	HS1A	HS1B	HS1D	HS1M	HS1G	HS1J	HS1K	HS1S	Unit
Max. repetitive peak reverse voltage		V _{RRM}	50	100	200	300	400	600	V		
Max. RMS reverse voltage		V _{RMS}	35	70	140	210	280	420	560	700	V
Max. DC blocking voltage		V_{DC}	50	100	200	300	400	600	800	1000	V
Max. average forward current			1						Α		
Non-repetitive peak forward surge current		IFSM	30						Α		
8.3ms single half-sine-wave		II SIVI									,,
Max. instantaneous forward voltage drop per diode		V _{FM}	1.0 1.3 1.7						V		
Max. instantaneous reverse current	Ta=25 °C	5									
at rated DC blocking voltage	Ta=125 °C	I _{RM}	100								μΑ
Operating junction temperature		TJ	-55 ~ + 150						°C		
Storage temperature		Tstg	-55 ~ + 150						°C		
Maximum reverse recovery time (Note1)		trr	50 75				•	nS			

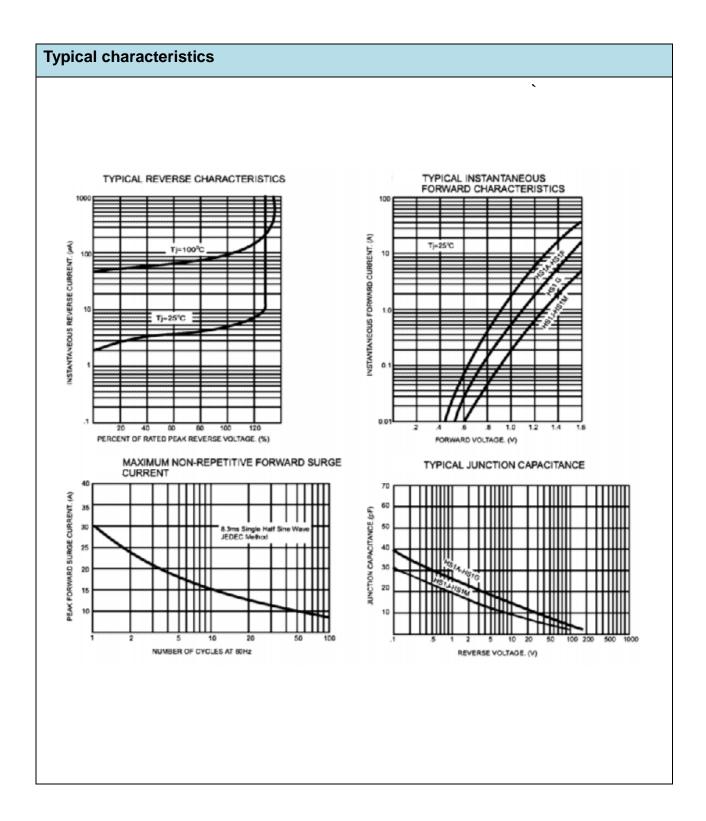
Notes:

¹ Reverse Recovery Test Conditions: IF=0.5A, IR=1.0A, IRR=0.25A



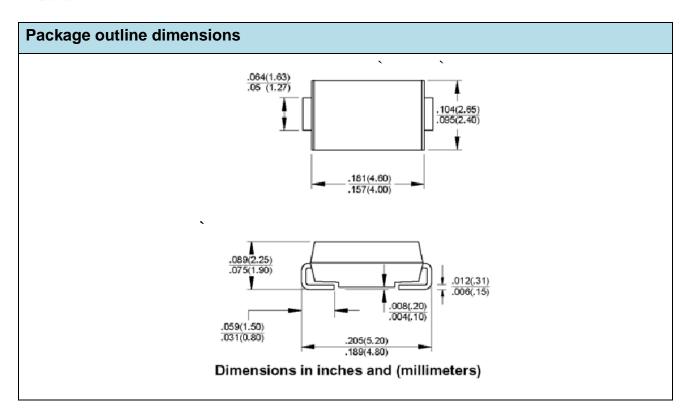
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Ordering information (Example)						
PREFERRED	UNIT WEIGHT (g)	PREFERRED PACKAGE CODE	BASE QUANTITY	DELIVERY MODE		
HS1M						





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